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**From:** Coan, Sean [CoanSM@cdmsmith.com]  
**Sent:** 8/12/2016 2:01:52 PM  
**To:** Cirian, Mike [Cirian.Mike@epa.gov]  
**CC:** Repine, Damon [RepineDL@cdmsmith.com]; Welch, August [WelchA@cdmsmith.com]  
**Subject:** CFAC Geophysical Report comments

Mike,

CDM Smith has reviewed the *Report of Geophysical Investigation* for the CFAC site and offers the following comments:

- The report points out several locations where it appears that the vertical extent of the landfill material (or material impacted by the landfills) in the West Landfill extends to depths greater than expected, and possibly in contact with groundwater (see Figures 5 and 7). Likewise, the vertical extent of landfill material/landfill-impacted material in the Center Landfill appears to extend below the expected depth (see Figure 6).
- Page 6, Section 6.1, 1<sup>st</sup> full paragraph: Please define the term “pseudosection” in the text.
- Page 10, Section 7.3, Bedrock; Figure 4: The bedrock contact, inferred on the northeast extent of the transect, is interpreted to extend from station (STA) 1300 to STA 1650 based on increased induced polarization (IP) chargeability starting at an approximate depth of 3060 feet above mean sea level (amsl). A similar increase in IP chargeability is apparent at a corresponding depth from STA 50 to STA 1050. Please describe why the change in chargeability from STA 50 to STA 1050 is not interpreted as a bedrock contact.
- Page 13, Section 7.6; Figures 5 and 7: The water table along Line 4 (see Figure 5) in the vicinity of the Line 6 intersection is interpreted at approximately 3080 feet amsl. On Figure 7 the water table is not shown at the intersection of Lines 4 and 6. It is understood that the IP chargeability signature that implies the water table on Figure 7 is not apparent in the vicinity of this intersection, however, data from Line 4 should be used to infer the water table in the vicinity of the Line 4/Line 6 intersection. Please show the interpreted water at an elevation of approximately 3080 feet amsl below the Line 4 intersection on Figure 7.
- Figure 1: Please label the site features that are relevant to the investigation and interpretation of results.
- Figure 3: Please label the East Landfill.
- Figure 5: Please label the Wet Scrubber Sludge Pond and the West Landfill.
- Figure 6: Please label the Wet Scrubber Sludge Pond and the Center Landfill.
- Figure 7: Please label the West Landfill and the Sanitary Landfill.

Please let us know if you have any questions or would like to discuss.

Thanks very much,

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